



FIG. 1

Q M G F A E N Q L S L E L I R E W I K N 60
CAGATGGGTTTGGGAGAACCAAGCTTTTCGCTGGAGTTAATACGTGAGTGGATCAAGAAT
H P E A S I C S A E G L P Q F M E I A N 120
CACCCGAGGCCTCCATTTGCTCGGCGGAGGGCCCTGCCGAGTTTCATGGAGATCGCCAAT
F Q D Y H G L P A F L Q G I A K L M E K 180
TTCCAAGACTACCATGGCTTGGCGGCTTTTCTGCAGGGAATCGCGAAATTGATGGAGAAA
V R G G R V K F D P N R V V M S G G T 240
GTGAGAGGAGGAAGGTCAAATTCGATCCGAACCGCGTGGTGATGAGCGGGAGGCACT
G A Q E T L A F C L A D P G D A F L V P 300
GGAGCGCAAGAAACGCTCGCGTTTTGTCTCGCTGACCCCTGGCGACGCCCTTCTCGTCCCA
T P Y Y P A F N R D L R W R T G V E L L 360
ACTCCGTACTATCCAGCATTTAATCGCGATCTCCGGTGGAGAACGGGCGTCGAGCTCCTC
P V H C K S S N H F R V T K T A L E S A 420
CCGGTTCACTGCAAGAGCTCTAATCACTTCAGAGTCACCAAAACGGCGCTAGAAATCGGCA
Y E K A R K D N I R V K G V L I T N P S 480
TACGAGAAAGCGCGAAAGGATAACATCAGAGTAAAGGAGTACTGATAACCAACCCATCC
N P L G T T M D K H T L Q T L V K F V N 540
AACCCGCTCGGCACGACCATGGATAAACACACGCTACAGACCCCTCGTGAAATTCGTAAAC

1/10

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FIG. 1 cont'd

E R R I H L V C D E L Y G A T I F R E P 600
GAAAGGAGATCCACCTAGTCTCGACGAGTTATACGGCGCAACCATCTTTAGGGAGCCC
R F V S I S E V I E E D P N C D K N L I 660
AGGTTCTCAGCATCTCCGAGGTAATAGAAGAGGACCCGAACTGCGACAAGAAATCTGATC
H I A Y S L S K D F G L P G F R V G I V 720
CACATTGCGTACAGTCTCTCAAAGGACTTCGGTCTCCCGGATTCGGAGTCGGGATCGTG
Y S Y N D T V V S C A R R M S S F G L V 780
TATTCCTACAACGACACGGTGGTTAGTTGGCACGCAGAATGTCGAGCTTCGGCCTCGTC
S S Q T Q Y L L A A M L S G E E F L P T 840
TCGTGCGAGACACAGTACCTACTGGCCGCCATGCTATCCGGCGAAGAATTTTGCCAACA
L L T E S A K S L S E S H R I F S S G L 900
TTRACTGACTGAAAGCGGAAGAGTCTGTGCGAGAGCCACAGGATCTTCTTCCGGCCTT
E E V D I R C L D G N A G V F C W M D L 960
GAGGAAGTCGACATCCGCTGCTTGGACGGCAATCCGGGGTCTTCTGCTGGATGGACCTA
R H L L K E A T E D G E L E L W R V I V 1020
CGGCACCTCTCAAAGAAGCCACCGAAGACGGCGAGCTCGAGCTGTGGCGGTGATAGTG
N N V K L N V S P G S S F Y C A E P G W 1080
AACATGTCAAGCTCAATGTGTCCCCCGGTTGTCGTGTTTTATTGGCGCGAGCCAGGTTGG

2/10



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FIG. 2

Q M G L A E N Q L C F N L I H E W P L K
CAGATGGGCCCTTGCTGAGAAATCAGCTTTGCTTTAATTAATTCACGAGTGGCCGCTGAAA 60

N P E A S I C T T Q G A A E F R D I A I
AACCAGAGCCCTCCATTTGTACAACACAGGAGCAGCTGAATTCAGAGATATAGCTATC 120

F Q D Y H G L A E F R E A V A K F M G K
TTTCAAGATTATCAATGGCTTGGCTGAATTCAGAGAGGCTGTTGCAAAAGTTTATGGGAAA 180

V R R N R A S F D P D R I V M S G G A T
GTGAGAGAAACAGAGCTTCATTTGACCCCTGATCGGATTGTTATGAGTGGAGGAGCAACT 240

G A H E M I G F C L A D P G D A F L V P
GGAGCTCATGAAATGATTGGTTTCTGTTTGGCTGATCCTGGCGATGCATTCTTGGTTCCA 300

T P Y Y P G F D R D L R W R T G V K L I
ACTCCTTATTATCCAGGGTTTGATAGAGATTTGAGATGGAGAACGGGAGTCAAACTCAT 360

P V V C E S S N D Y Q I T I E A L E A A
CCAGTTGCTGTGAAAGCTCAAACGATTACCAGATCACCATAGAACCCCTGGAAGCTGCT 420

Y E T A Q E A D I K V K G L V I T N P S
TATGAACCCGCACAAGAAGCTGACATCAAGGTAAAGGTTTGGTTCATAACCAACCCATCA 480

N P L G T I I T K D T L E A L V T F T N
AACCCTGGGAACAATTATTACCAAGGACACATTAGAAGCTCTAGTCACCTTCACCAAC 540

3/10



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FIG. 2 cont'd

H K N I H L V C D E I Y A G Y R L Q P R
CACAAGAACATTCTGGTGTGATGAGATATATGCTGGTTACCGTCTTCAGCCAGG 600

A E F T S I A E I I E E D K I C C N R D
GCCGAATTCACCGCATAGCCGAGATAATTGAAGAAGATAAAATTTGTTGCAATCGTGAT 660

L I H I I Y S L S K D M G F P G F R V G
CTCATCCACATCATTTACAGTTTATCCAAAGACATGGGATTCCTGGATTTAGAGTTGGC 720

I V Y S Y N D A V V S C A R K M S S F G
ATTGTGTATTCATACAATGATGCAGTGGTGAGTTGTGCTCGTAAGATGTCGAGCTTCGGC 780

L V S S Q T Q Y L I A S M L A D D E F V
CTAGTATCTTCGCAACCCAGTATCTGATTGTCATCCATGTTAGCAGACGATGAATTTGTA 840

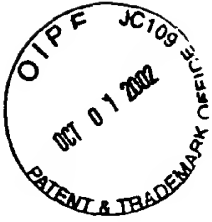
D K F I V E S R K R L A M R H S F T Q
GACAAATTTATTGTAGAGAGCAGAAAGAGGCTGGCAATGAGACATAGTTTTTTCACACAA 900

R L A Q V G I N C L K S N A G L F V W M
AGACTTGCTCAAGTAGGCATTAACTGTTTAAAAAGCAATGCTGGTCTTTTGTGTGGATG 960

D L R R L L K E Q T F E A E M V L W R V
GATTTGCGTAGACTGCTGAAAGAACAGACATTTGAAGCAGAAATGGTGTATGGAGAGTA 1020

I I N E M K L N V S P G S S F H C S E P
ATTATAAACGAAATGAAACTCAATGTATCTCCTGGTTCGTCTTTTCCACTGCTCAGAACCT 1080

4/10



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G W F S V C F A
GGCTGGTTCAGCGTCTGCTTCGCT 1104



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FIG. 3

Q M G F A E N Q L C F D L I E K W V K K 60
CAGATGGGTTTGTGCTGAAAATCAGCTTTGCTTTGATTGATCGAGAAGTGGGTTAAAAAG
N P N A S I C T A E G V E N F K H I A N 120
AATCCCAATGCTTCCATCTGCACAGCTGAAGGGGTTGAAAACTTCAAGCACATAGCCAAC
F Q D Y H G L K E F R Q E V A K L M G K 180
TTCCAAGACTATCATGGCCTGAAAGAATTTAGACAGGAAGTTGCCAAGTTAATGGGGAAG
A R G G R V T F D P E R I V M S G G A T 240
GCAAGAGGGCGCAGAGTGACGTTCCAGCCAGAGCGTATTGTGATGAGCGGGGACGACACA
G A S E T I M F C L A D P G D A L L V P 300
GGCGCCAGCGAGACGATTATGTTTGTGCTTGGCGGATCCAGGCGATGCTCTTGTGTTCCC
T P Y Y P G F N R D L R W R T G V Q I I 360
ACTCCTTACTATCCTGGATTCAATAGGGACCTGAGATGGCGAACCGGCGTCCAGATTATT
P V Q C S S S H N F T V T R E A V E A A 420
CCCGTGCAATGCAGCAGCTCACACAATTTACAGTAACACGGGAAGCCGTAGAGGCTGCG
Y Q K A Q E A N I N V T G L I I T N P S 480
TACCAGAAAGCTCAAGAAGCCCAACATCAATGTACAGGCTTGATCATCACCAACCCCTCG
N P L G T T L D S Q T L Q S L V I F V N 540
AATCCGCTAGGCACCCTTAGACTCAAAACACTCCAGAGCTTGGTCATCTTCGTCAAC

5/10

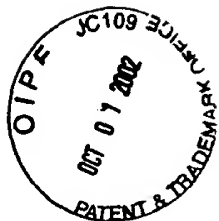


FIG. 3 cont'd

D K T I H L V C D E I Y A A T V F S S P
GACAAGACCATCCACCTGGTCTGGACGAAATCTATCGGCCACCGTCTTCAGCTCCCGG 600

E F V S I G E I I Q E M D V N R D L I H
GAGTTCGTCAGCATCGGGAGATCATCCAAGAAATGGACGTCAACCGCGACCTTATCCAC 660

I I Y S L S K D M G L P G F R V G I V Y
ATCATCTACAGCTTGTCCAAAGATATGGGTCTCCCGGTTTCCGGGTAGGTATTGTGTAT 720

S Y N D G V L S C G R R M S S F G L V S
TCCTACAACGACGGTGTATTAAAGCTGCGGCCGGGATGTCGAGCTTTGGGTTGGTCTCG 780

S Q T Q Y F L A T L L S D D E F V D Y F
TCACAGACTCAATATTTCTTGGCGACACTGCTGTCCGACGACGAGTTCGTCGATTACTTC 840

L R E S S K R L A R R H H K L T R G L E
CTCCGGGAAAGCTCGAAGAGGCTGGCGAGAGAAGACACCATAAACTCACCAGAGGGCTGGAG 900

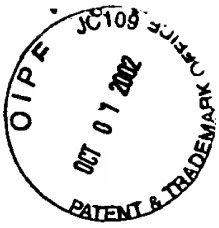
Q V G I K C L K S N A G L F V W M D L R
CAAGTGGGGATAAAGTGCTTGAAAAGCAATGCCGGACTTTTGTGTGGATGGACCTGGCG 960

R L L E G P T S F D A E M K L W R T I V
AGGCTCCTGGAAGGTCCAACGTGTTTGATGCAGAAATGAAGCTGTGGCGGACCATCGTC 1020

N D V K L N V S P G S S F H V A E P G W
AACGACGTGAAGCTGAACGTGTCGCCGGGATCTTCGTTCCACGTGGCGGAGCCGGGTGG 1080

6/10

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F R V C F A
TTCAGAGTATGTTTCGCT 1098

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FIG. 4

Q M G L A E N Q L C F D L I E D W I R K
CAGATGGGCCTTGCCGAGAATCAGCTTTGCTTTGATTGATCGAAGACTGGATTGCAAA 60
N P Y A S I C T A E G V D E F K E I A N
AATCCCTATGCCCTCCATTTGTACTGCTGAAGGAGTTGATGAGTTCAAGGAGATTGCCAAC 120
F Q D Y H G L P E F R K A V A K F M G K
TTTCAAGATTATCATGGCTTGCCAGAGTTTAGAAAGGCTGTGGCAAAGTTTATGGGAAA 180
V R G G R V T F D P D R I V M G G V T
GTGAGAGGTGGAAGAGTAACATTTGATCCAGACCGTATAGTCATGGCGGTGGAGTTACA 240
G A N E Q I I F C L A D P G D A F L V P
GGCGAAAACGAGCAAATCATCTTCTGTTTAGCCGACCCCTGGCGATGCTTTTCTTGTCCC 300
S P Y Y P A F D R D L G W R T G G E I V
TCACCTTATTATCCAGCATTTGACCGGGACCTGGGATGGCGACTGGAGGTGAAATAGTT 360
P V P C D S S T N F Q I T R D A L E E A
CCTGTCCCTGTGACAGCTCAACCAATTTCCAGATAACCAGAGATGCATTGGAGAAGCA 420
Y E K A R E A N I N I K G L I I T N P S
TATGAAAAAGCTCGAGAAGCCAAACATTAAATATTAAGGCTTGATCATAACAAACCCCTCA 480
N P L G I T L D R D T L K S L V S F I D
AACCCACTTGGCATCACCCCTAGACAGAGATACTCTTAAAGCCCTAGTGAGCTTCATCGAT 540

7/10

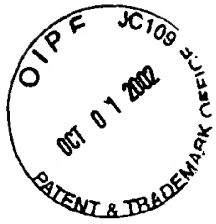


FIG. 4 cont'd

E K N I H F V C D E I Y A A T L F C P P 600
GAAAAGAACATTCACTTTGTCTGCGATGAAATCTATGCTGCCACTCTCTTCTGTCCACCC
K F V S V A E V I Q E M D C N L D L I H 660
AAGTTCGTAAGCGTCGCTGAAGTGATCCAAGAAATGGACTGTAATCTTTGATCTCATCCAC
I V Y S L S K D M G L P G F R V G I V Y 720
ATTGTTTACAGTTTGTCTAAGGACATGGGCCCTCCCTGGCTTTAGGGTTGGCATTTTAT
S Y N D A V V S C I R K M S S F G L V S 780
TCTTATAATGATGCAGTTGTGAGTTGTATCCGCAAGATGTCAAGCTTCGGTTTGGTATCC
S Q T Q Y L L A S M L S D D E F V E K F 840
TCACAACTCAATATTTACTCGCTTCAATGCTTTCTGATGATGAATTTGTGGAAGAAAGTTT
L A E S S K R L A K R Y H I F T K R L E 900
CTAGCGGAAAGCTCAAAGAGGCTGGCAAAAGGTACCATATTTTCAAAAGAGACTTGAG
K V G I N C L K G N A G L F F W M D L R 960
AAAGTGGGGATTAACTGCTTGAAGGAAATGCAGGTCTTTTCTTCTGGATGGATTGCGA
H L L Q Q E T V D A E M K L W G T I L N 1020
CACCTCCTTCAACAAGAAACAGTTGATGCCGAAATGAAGCTATGGGCGACGATTTTGAAC
D V K L N V S P G S S F H C Q E P G W F 1080
GATGTGAAACTTAAAGTTTCAACAGGCTCTTCCCTTTCATTGCCAGGAGCCTGGTTGGTTC

8/10

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AGAGTCGCTTCGCTG 1096



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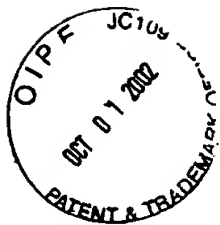
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9/10

FIG. 5

Q M G F G E N L L C F D L V Q E W V L S 60
CAGATGGGATTTGGGAAATCTGCTTTGCTTTGATTAGTTCAAGAATGGTCTTAAGC
N P E A S I C T A E G I S D F R D I A I 120
AACCCAGAGCCTCTATCTGCACCTGCCGAAGGTATAAGTGAATTCAGAGATATCGCTATC
F Q D Y H G L P E F R N A V A N F M A R 180
TTTCAGGATTTATCACGGCTTGCCAGAGTTCAGAAATGCTGTGCAAAATTTATGCAAGA
V R G N R V K Y D P D R I V M S G G A T 240
GTGAGAGGGAATAGAGTCAAATACGACCCCTGATCGAATGTTATGAGCGGTGGAGCAACC
G A H E T V A F C L A D P G E A F L G A 300
GGAGCACATGAGACGGTTGCCCTTTTGGTGTGATCCCGTGAAGCAATTTTGGGTGCC
T P Y Y P G F G R D L R W R T G V Q L F 360
ACTCCTTACTATCCAGGATTTGGTCGAGATTTGAGATGGAGAACAGGAGTTCAACTTTT
P V V C D S S N N F K I T R E A V E A A 420
CCAGTTGTGTGACAGTTCTAACAAATTTCAAGATTACAAGAGAAGCCGTGGAAGCAGCA
Y E K A Q E D H I R I K G L V L T N P S 480
TATGAAAAAGCTCAAGAAGACCACATCAGAATCAAGGTTTGGTCTCACAATCCATCG
N P L G T C L D R E T L R S L V S F I N 540
AACCCGCTGGGACTTGTTTGGACAGAGAAACACTAAGAAGTTTAGTAAGCTTCAATTAAT



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FIG. 5 cont'd

E K N I H L V C D E I Y A A T I F M G Q
GAAAAGAACATCCACTTAGTCTGCGACGAGATTATGCTGCCACAATCTTCATGGGCCAG 600

P D F I S I S E I I E E D I H C N R N L
CCCGATTTCATTAGCATCTCTGAAATTATAGAAGAAGATATTCACGTGCAATCGCAATCTC 660

I H L V Y S L S K D L G F P G F R V G I
ATCCACCTTGTTTACAGTCTTTCAAAGGATCTGGGGTCCCGAGGCTTTAGGGTCGGCATTT 720

I Y S Y N D T V V S C A C K M S S F G L
ATATACTCATACAACGATACAGTTGTGAGTTGCGCCTGCAAAATGTCAAGCTTTGGACTT 780

V S S Q T Q H L I A S M L S D D E F V D
GTATCATCAAACTCAACATTTAATCGCTTCAATGTTATCAGATGATGAATTTGTGGAT 840

R F I T E S A K R L A K R H R A F T W G
AGGTTTCATTACTGAGAGTGCTAAAGGCTTGCAAAAAGGCACAGAGCCTTCACATGGGGG 900

L S Q V G I G C L K S N A G L F F W M D
CTATCTCAAGTAGGCAITGGTTGTTTGAAGAGCAATGCGGGGCTATTTTCTGGATGGAT 960

L H H L L K E Q T D E A E I E L W K V I
TTGCATCATCTCCTCAAGGAGCAAACTGATGAAGCAGAGATAGAACTGTGGAAGTGATA 1020

I N E V K L N V S P G S S F H C A N P G
ATCAACGAAGTTAAATTAATGTTTCTCCGGGTTCTTCCTTTTCATTGCGCTAATCCAGGA 1080

10/10



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W F R V C F A N M D E
TGGTTTCGGGTTTGTTCGCCCAACATGGACGAA

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